

Amendment

Serial No.: 10/516,578

Confirmation No.: 5513

Filed: November 16, 2005

For: PSEUDOTYPED RETROVIRUSES

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Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the above-identified application:

1. (Currently Amended) A pseudotyped retrovirus comprising recombinant RNA associated with a retroviral core surrounded by a lipid bilayer having disposed therein ~~[[a]] an Ebola glycoprotein comprising a modified~~ containing a deletion of amino acids 309-489 of SEQ ID NO:1 in the *O*-glycosylation region, the recombinant RNA comprising (i) a nucleotide sequence defining a selected biomolecule intended for delivery to a target cell, and (ii) retroviral control elements for packaging, reverse transcription and integration of the retrovirus into a target cell.
2. (Original) The pseudotyped retrovirus of claim 1 wherein the retroviral core and control elements are from Moloney murine leukemia virus (Mo-MuLV).
3. (Withdrawn) The pseudotyped retrovirus of claim 1 wherein the retroviral core and control elements are from a lentivirus.
4. (Withdrawn/Currently Amended) The pseudotyped retrovirus of claim ~~[[1]]~~ 3 wherein the lentivirus is feline immunodeficiency virus (FIV), human immunodeficiency virus (HIV), simian immunodeficiency virus (SIV) or equine infectious anemia virus (EIAV).
5. (Canceled)
6. (Original) The pseudotyped retrovirus of claim 1 wherein the selected biomolecule is a protein.
7. (Withdrawn) The pseudotyped retrovirus of claim 1 wherein the selected biomolecule is a bioactive RNA.

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8. (Original) The pseudotyped retrovirus of claim 1 having a transduction efficiency into target cells of at least 2-fold higher than a retrovirus pseudotyped with the wild-type glycoprotein.
9. (Currently Amended) A pseudotyped retrovirus comprising recombinant RNA associated with a retroviral core surrounded by a lipid bilayer having disposed therein an Ebola glycoprotein ~~comprising a modified~~ containing a deletion of amino acids 309-489 of SEQ ID NO:1 in the *O*-glycosylation region, the recombinant RNA comprising (i) a nucleotide sequence defining a selected biomolecule intended for delivery to a target cell, and (ii) retroviral control elements for packaging, reverse transcription and integration of the retrovirus into a target cell.
10. (Canceled)
11. (Currently Amended) The pseudotyped retrovirus of claim ~~[[10]]~~ 9 wherein the retroviral core and control elements are from Mo-MuLV retrovirus.
12. (Withdrawn/Currently Amended) The pseudotyped retrovirus of claim ~~[[10]]~~ 9 wherein the retroviral core and control elements are from a lentivirus.
13. (Currently Amended) A pseudotyped retrovirus pseudotyped with ~~[[a]] an Ebola~~ glycoprotein ~~comprising a modified~~ containing a deletion of amino acids 309-489 of SEQ ID NO:1 in the *O*-glycosylation region, the pseudotyped retrovirus having a transduction efficiency into a target cell of at least 2-fold higher than a retrovirus pseudotyped with the wild-type glycoprotein.
- 14.-25. (Canceled)